



# SEQUENCE LISTING

<110> ward, Larry D.  
Thomson, Helen

<120> Poxvirus vector encoding retrovirus (eg HIV) and cytokine

<130> 19746

<140> 10/575,928

<141> 2006-14-14

<150> AU 2003905642

<151> 2003-10-15

<150> AU 2003905683

<151> 2003-10-16

<160> 7

<170> PatentIn version 3.2

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<212> DNA

<213> Human immunodeficiency virus

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<221> CDS

<222> (1)..(1329)

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Glu Lys Ile Arg Leu Arg Pro Gly Gly Lys Lys Lys Tyr Lys Leu Lys	
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Gln Pro Ser Leu Gln Thr Gly Ser Glu Glu Leu Arg Ser Leu Tyr Asn	
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Thr Val Ala Thr Leu Tyr Cys Val His Gln Arg Ile Asp Val Lys Asp	
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Thr Lys Glu Ala Leu Glu Lys Ile Glu Glu Glu Gln Asn Lys Ser Lys	
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 Ser Ser Glu Gln Thr Arg Ala Asn Ser Pro Thr Arg Arg Glu Leu Gln  
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 Val Trp Gly Gly Glu Asn Asn Ser Leu Ser Glu Ala Gly Ala Asp Arg  
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gaa	ggg	gca	gta	gta	ata	caa	gat	aat	agt	gac	ata	aaa	gta	gtg	cca	2928	
Glu	Gly	Ala	Val	Val	Ile	Gln	Asp	Asn	Ser	Asp	Ile	Lys	Val	Val	Pro		
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 <213> Human immunodeficiency virus

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Gln	Gly	Thr	Val	Ser	Phe	Asn	Phe	Pro	Gln	Ile	Thr	Leu	Trp	Gln	Arg		
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Asp	Thr	Gly	Ala	Asp	Asp	Thr	Val	Leu	Glu	Glu	Met	Asn	Leu	Pro	Gly		
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Lys	Trp	Lys	Pro	Lys	Met	Ile	Gly	Gly	Ile	Gly	Gly	Phe	Ile	Lys	Val		
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170

175

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Lys Lys Lys Ser Val Thr Val Leu Asp Val Gly Asp Ala Tyr Phe Ser  
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Val Pro Leu Asp Lys Asp Phe Arg Lys Tyr Thr Ala Phe Thr Ile Pro  
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Ser Ile Asn Asn Glu Thr Pro Gly Ile Arg Tyr Gln Tyr Asn Val Leu  
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Pro Gln Gly Trp Lys Gly Ser Pro Ala Ile Phe Gln Ser Ser Met Thr  
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Lys Ile Leu Glu Pro Phe Arg Lys Gln Asn Pro Asp Ile Val Ile Tyr  
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Phe Thr Thr Pro Asp Lys Lys His Gln Lys Glu Pro Pro Phe Leu Trp  
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Met Gly Tyr Glu Leu His Pro Asp Lys Trp Thr Val Gln Pro Ile Met  
385 390 395 400

Leu Pro Glu Lys Asp Ser Trp Thr Val Asn Asp Ile Gln Lys Leu Val  
405 410 415

Gly Lys Leu Asn Trp Ala Ser Gln Ile Tyr Ala Gly Ile Lys Val Lys  
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680

685

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Asp Lys Ala Gln Glu Glu His Glu Lys Tyr His Ser Asn Trp Arg Ala  
725 730 735

Met Ala Ser Asp Phe Asn Leu Pro Pro Val Val Ala Lys Glu Ile Val  
740 745 750

Ala Ser Cys Asp Lys Cys Gln Leu Lys Gly Glu Ala Met His Gly Gln  
755 760 765

Val Asp Cys Ser Pro Gly Ile Trp Gln Leu Asp Cys Thr His Leu Glu  
770 775 780

Gly Lys Ile Ile Leu Val Ala Val His Val Ala Ser Gly Tyr Ile Glu  
785 790 795 800

Ala Glu Val Ile Pro Ala Glu Thr Gly Gln Glu Thr Ala Tyr Phe Leu  
805 810 815

Leu Lys Leu Ala Gly Arg Trp Pro Val Lys Thr Ile His Thr Asp Asn  
820 825 830

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835 840 845

Gly Ile Lys Gln Glu Phe Gly Ile Pro Tyr Asn Pro Gln Ser Gln Gly  
850 855 860

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865 870 875 880

Arg Asp Gln Ala Glu His Leu Lys Thr Ala Val Gln Met Ala Val Phe  
885 890 895

Ile His Asn Phe Lys Arg Lys Gly Gly Ile Gly Gly Tyr Ser Ala Gly  
900 905 910

Glu Arg Ile Val Asp Ile Ile Ala Thr Asp Ile Gln Thr Lys Glu Leu  
915 920 925

Gln Lys Gln Ile Thr Lys Ile Gln Asn Phe Arg Val Tyr Tyr Arg Asp  
12

930

935

940

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Glu Gly Ala Val Val Ile Gln Asp Asn Ser Asp Ile Lys Val Val Pro  
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 Gly Ser Leu Gly Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu  
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aac ctt aag aaa tat ttt aat gca ggt cat tca gat gta gcg gat aat 144  
 Asn Leu Lys Lys Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn  
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 Gly Thr Leu Phe Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp  
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 Arg Lys Ile Met Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe  
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aaa aac ttt aaa gat gac cag agc atc caa aag agt gtg gag acc atc 288  
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Arg Lys Ile Met Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe
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